



Town Of Clarkson Office of the Supervisor Pre-Disaster Mitigation Plan

Appendix B – 12N

Hazard Specific Analysis: Earthquake

Definition:

“A sudden motion of the ground caused by release of subterranean strain energy, due to plate tectonics, resulting in surface faulting (ground rupture), ground shaking, and ground failure (collapse).”¹

Description:

Earthquakes are also described as: “an infrequent and relatively minor event in the Town Of Clarkson. However, due to the presence of natural fault lines within New York State, and the resulting potential for greater magnitude earthquakes due to these geographical features, this event must be considered within the Monroe County Hazard Plan.”² Although rated moderately low with a rank of 6 the possibility and potential should not be minimized.

Overview of specific hazard locations and the extent of the hazard:

Specific geographic data is pending for fault locations. The extent of this hazard would be determined by the population and the number of structures affected and by the incident’s design characteristics and its integrity. These areas have been determined to be most susceptible:

- ?? Structures, especially residences of less sustainable construction (i.e. mobile homes).
- ?? Dams, levees, and other structures that restrict water flow.
- ?? Trees, utility poles, and lines.
- ?? Roads, bridges, and elevated structures.

Previous occurrences of the hazard:

The Town Of Clarkson has not experienced an earthquake in the recent past, however, this town has experienced tremors resulting from minor to moderate earthquakes elsewhere in New York State. Specific information on these occurrences is pending.

¹ HAZNY

² NWS

Probability of future occurrences and potential magnitude:

The probability of future occurrences is likely, but predominantly from occurrences outside of the Town Of Clarkson. The magnitude of an event will be determined by its duration, intensity, location, and the structures affected.

Maps of hazard areas:

Map is not required due to widespread geographic potential.

Analysis of the impact on business, infrastructure & critical facilities:

This event may cause:

- ?? Injury or death.
- ?? Damage to roads and highways, buildings and other structures.
- ?? Cascade events, such as utility failure, flooding, explosions, and fire.
- ?? Complicated emergency response, due to obstructions, damage to emergency vehicles, etc.

Specific information concerning estimated value (\$) of potential loss, damage to structures, casualties, etc:

Specific data is pending.

Notes on data limitations: None